

Docket No.: 21547-00261-US1  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Cecilia Larsson, et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: Concurrently Herewith

Art Unit: N/A

For: AN IMPLANT ELEMENT

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A copy of each reference on PTO/SB/08 is attached.

Those patent(s) or publication(s) which are marked with an asterisk (\*) next to the Cite No. in the attached form PTO/SB/08 (facsimile) are not supplied because they were previously cited by or submitted to the Office in a prior application number 09/432,250, filed February 14, 2000 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

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The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 21547-00261-US1. A duplicate copy of this paper is enclosed.

Dated: 12-02-03

Respectfully submitted,

By 

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Attorney for Applicants

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Cecilia Larsson et al.
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	21547-00261-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	*AA	US-5,152,993	10-1992	Bjursten et al.	424/422
	*AB	US-5,354,390	10-1994	Haszmann et al.	
	AC	US-			
	AD	US-			
	AE	US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	*BA	EP0676176	10/1995	Great Britain		
	BB					
	BC					
	BD					
	BE					

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T <sup>2</sup>
	*CA	C. Larsson et al., "THE ULTRASTRUCTURE OF THE INTERFACE ZONE BETWEEN BONE AND SURFACE MODIFIED TITANIUM", Institute of Anatomy and Cell Biology, Goteborg University, Medicinareg. 3, S-413 90 Goteborg, Sweden, pp.1-11.				
	*CB	C. Larsson et al., "BONE RESPONSE TO SURFACE MODIFIED TITANIUM IMPLANTS", Institute of Anatomy and Cell Biology, Goteborg University, B.-O. Aronsson et al., Department of Applied Physics, Chambers University of Technology, pp.1-12.				
	*CC	C. Larsson et al., "BONE RESPONSE TO SURFACE MODIFIED TITANIUM IMPLANTS" Institute of Anatomy and Cell Biology, University of Goteborg, Medicinareg. 3, S-413 90 Goteborg, pp 1-16.				
	*CD	C. Larson, et al. "Bone response to surface-modified titanium implants: studies on the early tissue response to machined and electropolished implants with different oxide thickness," <i>Biomaterials</i> 17 1996; Pages 605-615.				
	*CE	C. Larson, et al. "Bone response to surface-modified titanium implants: studies on the early tissue response to machined and electropolished implants with different oxide thickness," <i>Biomaterials</i> 15 1994; Pages 1062-1074.				
	*CF	D.M. Brunette, PhD, "The Effects of Implant Surface Topography on the Behavior of Cells," <i>International Journal of Oral Maxillofacial Implants</i> 1988; 3:231-246.				
	*CG	B. Chehroudi, et al. "Titanium-coated micromachined grooves of different dimensions affect epithelial and connective-tissue cells differently in vivo," <i>Journal of Biomedical Materials Research</i> , Vol. 24, 1203-1219, 1990.				

Examiner Signature		Date Considered	
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Sheet	2	of	1	Attorney Docket Number	21547-00261-US1

	*CH	C.M. Muller-Mai at al. "Incorporation and Degradation of Hydroxyapatite Implants of Different Surface Roughness and Surface Structure in Bone," <i>Scanning Microscopy</i> , Vol. 4, No. 3, 1990; Pages 613-624.	
	*CI	D. Buser, at al. "Influence of surface characteristics on bone integration of titanium implants. A histomorphometric study of miniature pigs," <i>Journal of Biomedical Materials Research</i> , Vol. 25, 899-902, 1991.	
	*CJ	D.C. Smith, at al. "Dental implant materials. I. Some effects of preparative procedures on surface topography," <i>Journal of Biomedical Materials Research</i> , Vol. 25, 1045-1068, 1991.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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